PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Donald R. OWEN et al.

Application No.: Rule 53(b) Divisional of

Appln No. 09/645,525

Filed: July 11, 2003

Docket No.: 040219.03

For:

APPARATUS AND METHOD FOR MAINTAINING AND/OR RESTORING VIABILITY

OF ORGANS

INFORMATION DISCLOSURE STATEMENT

Director of the U.S. Patent and Trademark Office Washington, D.C. 20231

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date or the date of filing a CPA, OR (b) before the mailing date of a first Office Action on the merits in the present application. No certification or fee is required.
- 2. The references were cited by or submitted to the Office in Application No. 09/645,525, filed August 25, 2000, which is relied upon for an earlier filing date under 35 U.S.C. §120. Thus, copies of these references are not attached. 37 CFR §1.98(d).

Respectfully submitted,

William P. Berridge
Registration No. 30,024

Kevin M. McKinley Registration No. 43,794

WPB:KMM/jfl

Date: July 11, 2003

OLIFF & BERRIDGE, PLC P.O. Box 19928 Alexandria, Virginia 22320 Telephone: (703) 836-6400 DEPOSIT ACCOUNT USE
AUTHORIZATION
Please grant any extension
necessary for entry;
Charge any fee due to our
Deposit Account No. 15-0461

Form PTO-1449 US Dept. of Commerce (REV. 8-83) PATENT & TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT			ATTY DO 040219.0	OCKET NO. 3	APPLICATION NO. Rule 53(b) Div. of Appln No. 09/645,525			
(U	se several sheets if necessary)		APPLICA Donald R	ANT(S) . Owen et al.				
		FILING DATE July 11, 2003			GROUP			
	U.S. P	ATE	NT DOCL	IMENTS				
EXAMINER INITIAL	DOCUMENT NUMBER	I	DATE	NAME		CLASS	SUB CLASS	
	5,699,793	12/2	3/97	Brasile				
	5,843,024	12/1	/98	Brasile				
	5,702,881	12/3	0/97	Brasile et al.				
	5,643,712	7/1/	97	Brasile			_	
	3,545,221	12/0		Swenson et al.				
	1,682,344 08/28/2		:8/28	Lesieur				
	1,916,658 07/04/3		14/33	Davidson				
	3,406,531	10/22/		Swenson et al.			· · · · · ·	
	3,607,646	10/2	1/71	de Roissart			<u>. </u>	
	3,632,473	01/0	4/72	Belzer				
	3,639,084	02/0	1/72	Goldhaber				
	FOREIGN	N PA	TENT DO	CUMENTS				
	DOCUMENT NUMBER	r	DATE	COUNTRY		CLASS	SUB CLASS	
	0 256 653	02/2	4/88	EUROPE				
	OTHER DOCUMENTS (Incl	udin	g Author,	Title, Date, Pertinent Pages, etc.)				
	"GLUTATHIONE S-TRANSFERASE Loemen and C. Kootstra, Abstract subm Society, Aug. 1996.							
	"RENAL PRESERVATION AFTER W PREVENT REPERFUSION INJURY",							
	"ORGAN PRESERVATION", J.H. Sou 10, pgs. 194-215, 1989.	thard	d, Ph.D. an	d F.O. Belzer, M.D., <u>Principles of</u>	Organ Tı	ransplantatio	n, Chapter	
	"ORGANKO SERVIERUNGSMACHI	NE C	OKM 82",	Von Dietmer Scholz et al., East Ge	man Art	ticle, 1983.		
	"ARREST OF CEREBRAL BLOOD FI Wolin, L.C. Massopust, Jr., R.J. White				THE RH	ESUS MON	KEY", L.F	
	"NUTRITIONAL ASPECTS OF AMBU Roche, Vol. 42, No. 3, pgs. 557-558, Se			RE-OXYGEN RADICALS AND I	DISEASI	E-NO. 1", Ho	offmann-La	
	"CEREBRAL ISCHEMIC INJURY", B Edition, pgs. 9-10, 1988.	laine	e C. White	Emergency Medicine-A Comprehe	ensive St	udy Guide, S	econd	
EXAMINER				DATE	CONSID	ERED		
	I if citation considered, whether or not cita				w line th	hrough citati	on if not	

Form PTO-1449 US Dept. of Commerce ATTY DOCKET NO. APPLICATION NO. Rule 53(b) Div. of Appln No. (REV. 8-83) PATENT & TRADEMARK OFFICE 040219.03 09/645,525 INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) APPLICANT(S) Donald R. Owen et al. GROUP FILING DATE July 11, 2003 U.S. PATENT DOCUMENTS **SUB EXAMINER CLASS CLASS** DOCUMENT NUMBER DATE NAME INITIAL 05/02/72 3,660,241 Michielsen 3,738,914 06/12/73 Thorne et al. 08/21/73 Belzer et al. 3,753,865 3,772,153 11/13/73 de Roissart 3,777,507 12/11/73 Burton et al. 3,810,367 05/14/74 Peterson 10/22/74 M. Bier 3,843,455 10/1997 5,681,740 Messier et al. FOREIGN PATENT DOCUMENTS SUB DOCUMENT NUMBER DATE COUNTRY CLASS CLASS 01/04/89 **EUROPE** 0 297 723 1-213276 08/28/89 **JAPAN** 09/28/89 **GERMANY** 38 08 942 07/04/90 **EUROPE** 376 763 10/19/90 **JAPAN** 2-258701 WO 01/01774 A1 01/11/01 **WIPO** GB 1442356 A 07/1976 UNITED KINGDOM WO 00/18226 04/06/00 WIPO **WIPO** WO 96/30111 10/03/96 OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) "CEREBRAL BLOOD FLOW, VASOREACTIVITY, AND OXYGEN CONSUMPTION DURING BARBITURATE THERAPY IN SEVERE TRAUMATIC BRAIN LESIONS" Carl-Henrik Nordstrom et al., J. Neurosurg., Vol. 68, pgs. 424-431, March 1988. "AT SURGERY'S FRONTIER: SUSPENDED ANIMATION", New York Times, C1, C2, Nov. 13, 1990. "RANDOMIZED CLINICAL STUDY OF THIOPENTAL LOADING IN COMATOSE SURVIVORS OF CARDIAC ARREST", The New England Journal of Medicine, Vol. 314, No. 7, pgs. 397-403, Feb. 1996. "CURRENT CONCEPTS IN BRAIN RESUSCITATION", Mark C. Rodgers et al., J. American Medical Assn., Vol. 261, No. 21, pgs. 3143-3147, June 1989. DATE CONSIDERED **EXAMINER** Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-144 (REV. 8-83)	9	US Dept. of Commerce PATENT & TRADEMARK OFFICE	e E	ATTY DO 040219.03	OCKET NO.	APPLICATION NO. Rule 53(b) Div. of Appln 09/645,525			
INFO	ORMATIO	ON DISCLOSURE STATEMENT						,	
	(Use s	several sheets if necessary)		APPLICA Donald R.	.NT(S) Owen et al.		<u>, ,, , , , , , , , , , , , , , , , , ,</u>		
				FILING D			GROUP		
		U.S.	PATI	ENT DOCU	MENTS				
EXAMINER INITIAL		DOCUMENT NUMBER		DATE	NAME			CLASS	SUB CLASS
		3,881,990	05/0	06/75	Burton et al.				
		3,892,628	07/0	01/75	Thorne et al.				
		3,914,954	10/2	28/75	Doerig				
		4,186,565	2/5/	/80	Toledo-Pereyra				
	4,231,354		11/4	4/80	Kurtz et al.				
60/459,986			04/	04/03	David W. WRIGHT et al.				
	60/459,981 0		04/04/03		David W. WRIGHT et al.				
~ -	60/460,875			David W. WRIGHT et al.					
	•	FOREIC	ATENT DO	CUMENTS					
		DOCUMENT NUMBER		DATE	COUNTRY			CLASS	SUB CLASS
		163 242 8	07/	03/91	SOVIET UNION				
		93/00808	01/2	21/93	PCT				
		94/06292	03/	31/94	РСТ				
		96/05727	02/	29/96	PCT				
		OTHER DOCUMENTS (Inc	cludir	ng Author,	Title, Date, Pertinent Pages, o	etc.)			
		"CEREBROVASCULAR HYPOXIC METABOLISM", Judith H. Donegan						ICED BRAI	N
		"REGIONAL CEREBRAL BLOOD F TRANSFUSED RATS", P.A. Lee et a						JOROCARI	BON
		"PROTECTION FROM CEREBRAL M.D. et al., <u>Stroke</u> , Vol. 17, No. 6, pg.				NS IN R	RABBIT	S", Bruce D). Spiess,
		"FREE RADICALS AND MYOCARDIAL ISCHEMIA AND REPERFUSION INJURY", Paul J. Simpson et al., <u>J Lab</u> <u>Cin Med.</u> , pgs. 13-30, July 1987.							

	+				A 1944A				
EXAMINER					Г	DATE CO	ONSIDI	ERED	
Examiner:	xaminer: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								

Form PTO-1449 (REV. 8-83)	US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY D 040219.0	OCKET NO. 3		APPLICATION NO. Rule 53(b) Div. of Appln No. 09/645.525			
INFO	RMATION DISCLOSURE STATEMENT					09/04	13,323		
	(Use several sheets if necessary)		APPLICA Donald R	ANT(S) . Owen et al.					
			FILING I			GROUP			
	U.S.	PATI	ENT DOCU			L			
EXAMINER INITIAL	DOCUMENT NUMBER		DATE	NAM	Е		CLASS	SUB CLASS	
	3,962,439	06/08/76		Yokoyama et al.					
	3,995,444	12/	07/76	Clark et al.					
	FOREIG	GN PA	ATENT DO	CUMENTS					
	DOCUMENT NUMBER	IBER I		COUNT	RY		CLASS	SUB CLASS	
	96/32074	10/	17/96	PCT					
	96/32157	10/	17/96	PCT					
	2 226 482	01/0	04/73	GERMANY					
	760972	09/0	07/80	SOVIET UNION					
	0 096 997	12/2	28/83	EUROPE					
	221 361	04/2	24/85	GERMANY					
								·	
	OTHER DOCUMENTS (Inc	cludir	ng Author,	Γitle, Date, Pertinent Page	es, etc.)				
	"INCREASES IN BRAIN TUMOR A EMULSION (FLUOSOL-DA) EXCH 1987.								
	"POLAROGRAPHIC CEREBRAL O OF OXYGEN TRANSPORT BY EMI 1988.								
	"EASIER BREATHING IN RDS", J.C	C., <u>M</u> e	edical Tribu	ine, Jan. 11, 1990.	_			_	
	"90'S COULD SEE BRAIN INJURY	"90'S COULD SEE BRAIN INJURY REVERSAL", Rebecca Voelker, American Medical News, Nov. 17, 1989.							
	"COOLING BRAIN MAY LIMIT ST	ROKI	E DAMAG	E", American Medical No	ews, p. 66, N	Nov. 17	, 1989.		
	"DRUG MAY PRESERVE HEART T	ISSU	E AFTER .	ATTACK", The New Yor	rk Times Co	mpany	, p. 3, Sept. 5	5, 1989.	
	"RADICAL THERAPY", Scientific A	meric	an, Sept. 1	987.					
EXAMINER					DATE CO	ONSID	ERED		
		citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in not and not considered. Include copy of this form with next communication to applicant.							

Form PTO-144 (REV. 8-83)		US Dept. of Commerce ATENT & TRADEMARK OFFICE		ATTY DO 040219.03	OCKET NO. 3		Rule 5	ICATION N 3(b) Div. of	
INFO	RMATION DI	SCLOSURE STATEMENT					09/64:	5,525	
	(Use several	sheets if necessary)		APPLICA Donald R.	.NT(S) Owen et al.				
			•	FILING D			GROU	JP	
		U.S.	PATE	ENT DOCU	MENTS				
EXAMINER INITIAL		DOCUMENT NUMBER	I	DATE	NAME	3		CLASS	SUB CLASS
	4,24	2,883	01/0)6/81	Toledo-Pereyra			•	
	4,24	3,883	06/0	06/81	Schwarzmann				
	4,37	8,797	04/0)5/83	Osterholm				
	4,39	93,863	07/1	19/83	Osterholm				
	4,44	5,500	05/0	01/84	Osterholm		·		
	4,45	51,251	05/2	29/84	Osterholm				
	4,462,215 0		07/3	31/84	Kuraoka et al.				
		FOREIC	N PA	TENT DO	CUMENTS				
		DOCUMENT NUMBER	ı	DATE	COUNTE	RY		CLASS	SUB CLASS
	1 1	OTHER DOCUMENTS (Inc							
	НОГ	SUSCITATION OF THE RABBIT UR: PATHOPHYSIOLOGICAL Auscitation, Vol. 15, pgs. 267-287,	AND	PATHOMO					ONE
	"DIS	SEASES OF THE NERVOUS SYS	STEM	I", Arthur k	C. Asbury et al., Vol. 2, pg	gs. 1071 and	1 1083,	1986.	
		SITU CADAVER KIDNEY PERF . 1981.	USIC	ON", Rober	t T. Schweizer et al., <u>Tran</u>	splantation	, Vol. 3	2, No. 6, pg	s. 482-484,
	1 1	E OF EXTRACORPOREAL CAD chioro et al., Surgical Forum, Vol.				ON OF ORC	GAN HO	OMOGRAF	TS", T.L.
		ESERVATION OF CEREBRAL F POTHERMIC PROTECTIVE COM							
	то	"IN SITU KIDNEY PRESERVATION FOR TRANSPLANTATION WITH USE OF PROFOUND HYPOTHERMIA (5 TO 20° C.) WITH AN INTACT CIRCULATION", A. R. Moossa et al., Society For Vascular Surgery, Vol. 79, No. I, pgs. 60-64, Jan. 1976.							
		NALS OF CLINICAL AND LAB ociation of Clinical Scientists, Vol				erman, M.D)., Ph.D	., Official J	ournal of the
		TRACORPOREAL PERFUSION gery, Vol. 54, No. 6, pgs. 900-911,				MOGRAFT:	S", T.L.	Marchioro	et al.,
EXAMINER						DATE CO	ONSIDI	ERED	
Examiner:		on considered, whether or not ci					line th	rough citati	on if not in

Form PTO-1449 (REV. 8-83)	US Dept. of Commerc PATENT & TRADEMARK OFFICI		ATTY DOCKET NO. 040219.03			Rule	LICATION N 53(b) Div. of 5,525	
INFOR	MATION DISCLOSURE STATEMENT						_	
	(Use several sheets if necessary)		APPLICA Donald R	ANT(S) . Owen et al.				
			FILING I July 11, 2			GRO	UP	
	U.S.	PAT	ENT DOCU	MENTS		ı		
EXAMINER INITIAL	DOCUMENT NUMBER		DATE	NAMI	E		CLASS	SUB CLASS
	4,471,629	09/	18/84	Toledo-Pereyra				
	4,474,016	10/	02/84	Winchell				
	4,502,295	03/	05/85	Toledo-Pereyra				
·-	4,559,298	12/	17/85	Fahy				
	4,494,385	12/	22/85	Kuraoka et al.	•			
	4,596,250	06/	24/86	Beisang, III et al.				
	4,618,586	10/	21/86	Walker				,
	FOREIC	GN P.	ATENT DO	CUMENTS			·	
	DOCUMENT NUMBER		DATE	COUNTRY			CLASS	SUB CLASS
	OTHER DOCUMENTS (Inc	cludii	ng Author,	Title, Date, Pertinent Page	es, etc.)			
	"THE NATURE OF FLUOROCARBO Adv. Exp. Med. Biol., Vol. 248, pgs. 3			CEREBRAL OXYGEN	TRANSPO	RT", L	eland C. Cla	ark et al.,
	"STORAGE AND TRANSPORT OF CUSHIONS AND EUTECTOID COC 265-268, 1988.							
	"DECREASED NEPHROTOXICITY CYCLOSPORINE A COMPARED TO Vol. 27, No. 6, pgs. 3432-3433, Dec.	o co	NVENTIO					oceedings,
	"DEVELOPMENT OF AN ISOLATE Waugh et al., <u>American Journal of Phy</u>				PROVED F	UNCT	ION", Willia	am H.
	"LOW COST APPARATUS FOR PRI DNA POLYMERASE", Helge Torger							TICUS-
	"SIMPLE PROGRAMMABLE APPA DNA and Protein Engineering Technic				LIFICATIO	N", Ro	yal A. McGr	aw et al.,
	"AN ORGAN CRYOPRESERVATIO Engineering, Vol. BME-24, No. 2, pg				ın et al., <u>IEI</u>	EE Tran	sactions On	Biomedical
	"TRANSPLANTATION OF RABBIT Jacobsen et al., <u>Cryobiology</u> , Vol. 15,				OL SOLU	TIONS	AT 10°C", I	.A.
	"DISTRIBUTION OF REMOVAL OF IB A. Jacobsen, <u>Cryobiology</u> , Vol. 15,				IN PERFU	SION I	N RABBIT	KIDNEYS",
	"BANKING OF CELLS, TISSUES, A Cryobiology, Plenum Press, NY, pgs.			T LOW TEMPERATUR	ES", David	E. Peg	g, Current T	rends in
EXAMINER					DATE C	ONSID	ERED	
	itial if citation considered, whether or not conformance and not considered. Include copy of					line th	rough citati	on if not in

Form PTO-1449 (REV. 8-83)	PATENT & TRADEMARK OFFIC		ATTY DOCKET NO. 040219.03			APPLICATION NO. Rule 53(b) Div. of Appln 1 09/645,525			
INFC	RMATION DISCLOSURE STATEMENT		<u></u>						
	(Use several sheets if necessary)		APPLICA Donald R	ANT(S) . Owen et al.					
<u> </u>			FILING I July 11, 2			GROUP			
	U.S.	PAT	TENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER		DATE	NAME	E		CLASS	SUB CLASS	
	4,629,686	12/	16/86	Gruenberg		 :			
	4,657,532	04/	14/87	Osterholm					
	4,666,425	05/	19/87	Fleming					
	4,704,029	11/	03/87	Van Heuvelen		-"			
	4,723,974	02/	09/88	Ammerman					
	4,745,759	05/	24/88	Bauer et al.					
	4,766,740	08/	30/88	Bradley et al.		-		-	
	FOREI	GN P	ATENT DO	CUMENTS					
	DOCUMENT NUMBER		DATE	COUNTRY			CLASS	SUB CLASS	
	OTHER DOCUMENTS (In	cludi	ng Author,	Title, Date, Pertinent Pages, et	tc.)				
	"ACTIVATION OF ALPHA ADREN FOR UP TO 8 DAYS", Gregory M. F					NEYS S	STORED A	Γ-30°C	
	"HISTOLOGICAL CRYOPROTECT 33-46, 1984.	ION (OF RAT AN	ID RABBIT BRAINS", G.M.	. Fahy et	al., <u>Cr</u>	yo-Letters,	Vol. 5, pgs.	
	"VITRIFICATION AS AN APPROA 426, 1984.	СН Т	O CRYOPR	ESERVATION", G.M. Fahy	et al., C	ryobio	logy, Vol. 2	1, pgs. 407-	
	"A FULLY AUTOMATED SYSTEM al., Cryobiology, Vol. 22, pgs. 607-60			G ORGANS WITH CRYOPF	ROTECT	ΓIVE A	GENTS", C	3.M. Fahy et	
	"PERFUSION OF RABBIT KIDNEY 411-419, 1972.	's wi	TH CRYO	PROTECTIVE AGENTS", D.	E. Pegg	, <u>Cryob</u>	oiology, Vol	. 9, pgs.	
	"PERFUSION OF RABBIT KIDNEY 14, pgs. 168-178, 1977.	'S WI	TH GLYCE	EROL SOLUTIONS AT 5°C"	, D.E. P	egg et	al., <u>Cryobio</u>	logy, Vol.	
	"MOX®-100 RENAL PRESERVATI	ON S	YSTEM", V	Waters Instruments Medical G	Group, p	gs. 2-7,	, 1982.		
		"ENGINEERING ASPECTS OF EQUIPMENT DESIGN FOR SUBZERO ORGAN PRESERVATION", G.J. Sherwood et al., Organ Preservation, Chapter 15, pgs 152-174, 1973.							
	"ORGAN PERFUSION SYSTEMS: Corporation, pgs. 1-8, 1987.	AN E	VALUATIO	ON CRITERIA", Fereydoon S	Sadri, Ph	ı.D., <u>T.</u>	O.P.S. Med	ical	
	"SELENO-DL-METHIONINE REDU W.J. Armitage et al., <u>Cryobiology</u> , Vo				TECTE	O WITI	H ETHANE	DIOL",	
EXAMINER				D	ATE CO	NSIDI	ERED		
	nitial if citation considered, whether or not conformance and not considered. Include copy				-	line th	rough citati	on if not in	

Form PTO-1449 (REV. 8-83)	US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 040219.03			APPLICATION NO. Rule 53(b) Div. of Appln 09/645,525		
INFORM	ATION DISCLOSURE STATEMENT					09/64	15,525	
(I	Use several sheets if necessary)		APPLIC Donald F	ANT(S) R. Owen et al.	<u>-</u>	<u> </u>		
			FILING			GRO	UP	
	U.S. 1	PATE	NT DOC	UMENTS				
EXAMINER INITIAL	DOCUMENT NUMBER	D	ATE	NAM	1E		CLASS	SUB CLASS
	4,801,299	01/31	1/89	Brendel et al.				
	4,837,390	06/06	5/89	Reneau				
	4,879,283	11/07	7/89	Belzer et al.				
	4,951,482	08/28	3/90	Gilbert				
	4,958,506	09/25	5/90	Guilhem et al.				
	5,003,787	04/02	2/91	Zlobinsky				
	5,028,588	07/02	2/91	Hoffman et al.				
	5,036,097	07/30	0/91	Floyd et al.				-
	5,047,395	09/10	10/91 Wu					
	5,051,352	09/24	1/91	Martindale et al.				-
	5,066,578	11/19	9/91	Wikman-Coffelt	***	**		
	5,085,630	02/04	1/92	Osterholm et al.				
	5,110,721	05/05	5/92	Anaise et al.				
	5,130,230	07/14	1/92	Segall et al.				
	5,141,847	08/25	5/92	Sugimachi et al.		-		
	5,145,771	09/08	3/92	Lemasters et al.		•		
	5,149,321	09/22	2/92	Klatz et al.				
	FOREIG	N PA	TENT DO	CUMENTS				
	DOCUMENT NUMBER	D	ATE	COUNT	RY		CLASS	SUB CLASS
<u></u> _				<u> </u>				
	OTHER DOCUMENTS (Inc						2.10.101	
	"ISOLATED PERFUSION OF WHOL						<u> </u>	v
	"VARIATIONS IN VASCULAR RES HYPOTERMIC EXPERIMENTS", C.							C AND
	"COMPUTER CONTROL OF A MOD PRESERVATION USING CRYOPRO April 1981.							134-139,
EXAMINER			-		DATE CO	ONSID	ERED	-
	al if citation considered, whether or not cit					line th	rough citation	on if not in

Form PTO-1449 (REV. 8-83)	REV. 8-83) PATENT & TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT		ATTY I 040219.	OOCKET NO. 03	Rul	APPLICATION NO. Rule 53(b) Div. of Appln No. 09/645,525		
(L	Jse several sheets if necessary)		APPLIC Donald	ANT(S) R. Owen et al.				
			FILING July 11,		GR	GROUP		
	U.S	S. PAT	ENT DOC	UMENTS				
EXAMINER INITIAL	DOCUMENT NUMBER		DATE	NAME		CLASS	SUB CLASS	
	5,157,930	10/	27/92	McGhee et al.				
	5,200,176	04/	06/93	Wong et al.				
	5,216,032	06/	01/93	Manning				
	5,217,860	06/	08/93	Fahy et al.				
	5,234,405	08/	10/93	Klatz et al.				
	5,285,657	02/	15/94	Bacchi et al.				
	5,328,821		12/94	Fisher et al.				
	5,338,662 08		16/94	Sadri				
	5,356,771	10/1		O'Dell				
	5,362,622			O'Dell et al.				
-	5,383,854	01/	24/95	Safar et al.				
-	5,385,821	01/	31/95	O'Dell et al.	· · · · · ·			
	5,395,314	03/	07/95	Klatz et al.				
	5,434,045	07/	18/95	Jost				
	5,437,633	08/	01/95	Manning				
	5,472,876	12/	05/95	Fahy				
	5,584,804	12/	17/96	Klatz et al.			-	
	5,586,438	12/	24/96	Fahy				
	5,599,659	02/	04/97	Brasile et al.				
	5,712,084	01/	27/98	Osgood				
	FORE	IGN P	ATENT D	OCUMENTS				
	DOCUMENT NUMBER		DATE	COUNTRY		CLASS	SUB CLASS	
						-	-,	
		_						
EXAMINER				Г	ATE CONSI	DERED		

Initial it citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-144 (REV. 8-83)		US Dept. of Commerc PATENT & TRADEMARK OFFICI ION DISCLOSURE STATEMENT		ATTY D 040219.0	OCKET NO.	Rule	APPLICATION NO. Rule 53(b) Div. of Appln No. 09/645,525		
	(Use	several sheets if necessary)		APPLICA Donald R	ANT(S) . OWEN et al.				
				FILING I July 11, 2		GRO	UP		
		U.S.	PATI	ENT DOCL	IMENTS				
EXAMINER INITIAL		DOCUMENT NUMBER	1	DATE	NAME		CLASS	SUB CLASS	
					<u></u>		<u> </u>		
<u> </u>		FOREIC	GN PA	ATENT DO	CUMENTS				
		DOCUMENT NUMBER		DATE	COUNTRY		CLASS	SUB CLASS	
		WO 97/28449	0	8/07/97	PCT				
		WO 96/12191	0.	4/25/96	PCT				
		WO 96/31779	10	0/10/96	PCT			1	
·		WO 97/22003	0	6/19/97	PCT				
		OTHER DOCUMENTS (Inc	cludin	ng Author,	Title, Date, Pertinent Pages, etc.)				
		"EFFECT OF PHARMACOLOGIC A DOG KIDNEY DURING NORMOTH 676-682, June 1988.							
		"INTERMEDIATE NORMOTHERM KIDNEYS", J.G. Maessen et al., <u>Tran</u>	-	-				JURED	
		"THE BENEFICIAL EFFECT OF INT ISCHEMICALLY INJURED KIDNE 1989.							
		"THE ASYSTOLIC, OR NON-HEAR 921, 1997.	TBE	ATING, DO	DNOR", Gauke Kootstra, <u>Transpla</u>	ntation, V	ol. 63, No. ′	7, pgs. 917-	
		"THE USE OF HEMOGLOBIN SOLU Biomedical Engineering, Vol. 9, Issue				ls et al., C	CRC Critical	Reviews In	
		"NORMOTHERMIC RENAL ARTER Annals of Vascular Surgery, Vol. 10,				ATES", Jo	ohn D. Hugh	es et al.,	
		"IS NORMOTHERMIC PRESERVA" et al., Organ Preservation Basic and A				PRESER\	VATION?",	R. N. Dunn	
		"MILD HYPOTHERMIA GIVES BE' PERFUSION OF RAT KIDNEYS", B 1990.							
		"STUDIES OF CONTROLLED REPE and Cardiovascular Surgery, Vol. 101,				MD et al.,	The Journal	of Thoracic	
EXAMINER					DATE	CONSID	ERED		
Examiner:	aminer: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								

Form PTO-144 (REV. 8-83)	19	US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DO	OCKET NO. 3	Rule	APPLICATION NO. Rule 53(b) Div. of Appln No. 09/645,525		
INF	ORMATI	ION DISCLOSURE STATEMENT					09/64	13,323	
	(Use	several sheets if necessary)		APPLICA Donald R	ANT(S) . OWEN et al.		<u>l</u>		
			}	FILING I July 11, 2			GRO	UP	
		U.S. I	PATE	ENT DOCU	JMENTS		L		
EXAMINER INITIAL		DOCUMENT NUMBER	I	DATE	CLASS	SUB CLASS			
		FOREIG	N PA	TENT DO	CUMENTS	.			
		DOCUMENT NUMBER	I	DATE	CLASS	SUB CLASS			
									·-
		OTHER DOCUMENTS (Inc.)							
		"URINARY π-CLASS GLUTATHION HUMAN KIDNEY", Dr. Anders Sundi					ULAR I	DAMAGE II	N THE
		"EFFECT OF ISCHEMIA AND 24 HOUR REPERFUSION ON ATP SYNTHESIS IN THE RAT KIDNEY", C.E. Irazu et al., <u>Journal of Experimental Pathology</u> , Vol. 4, No. 1, pgs. 29-36, 1989.							
		"INTERMEDIATE NORMOTHERMIC STUDY INTO THE EFFECT OF FREI No. 5, pgs. 896-898, Oct. 1998.							
		"IMPROVEMENT OF POSTISCHEM DEVELOPED SOLUTION (BT01)", P							
		"ISCHEMIA WITH INTERMITTENT FOLLOWING RENAL ISCHEMIA IN No. 2, pgs. 150-155, 1993.							
		"GRAFT CONDITIONING OF LIVER LUNG MACHINE IN SITU", T. Endol							
		"MACHINE PERFUSION OF ISOLAT POLYOXYETHLENE (PHP) SOLUTI Biomaterials, Art. Cells & Immob. Bio	ON,	UW SOLU	TION AND ITS COMB	INATION",			
		"ANALYSIS OF THE OPTIMAL PER RESISTANCE AND OXYGEN CONS M.D. et al., <u>Surgery</u> , Vol. 77, No. 3, pp	UMF	' NI NOIT	THE HYPOTHERMIC F				
		"AN EXPERIMENTAL MODEL FOR Jablonski et al., <u>Transplantation</u> , Vol. 3				RY FROM V	WARM	ISCHEMIA	", Paula
		"PRESERVATION OF THE ISOLATE PERFLUOROTRIBUTYLAMINE EM Corporation, pp. 371-374, 1983.							
EXAMINER	1	<u> </u>				DATE C	ONSID	ERED	
Examiner:	Initial it	al if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in							
	Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								

Form PTO-1449 (REV. 8-83)	US Dept. of Comme PATENT & TRADEMARK OFFI RMATION DISCLOSURE STATEMENT		ATTY I 040219	DOCKET NO. 03	Rule	APPLICATION NO. Rule 53(b) Div. of Appln No. 09/645,525		
	(Use several sheets if necessary)			CANT(S) R. OWEN et al.	_			
			FILING July 11,		GRO	OUP .		
	U.S	S. PAT	ENT DOC	UMENTS				
EXAMINER INITIAL	DOCUMENT NUMBER		DATE	NAME		CLASS	SUB CLASS	
	3,881,990	05/	06/75	BURTON et al.				
	3,712,583	1-1	973	MARTINDALE et al.				
	5,051,352	9-1	991	MARTINDALE et al.				
	3,845,974	11-	1974	PELLOUX-GERVAIS				
	5,013,303		991	TAMARI et al.			- <u>-</u> .	
	5,879,329		999	GINSBURG				
	5,928,182		999	KRAUS et al.				
	FORE	IGN P.	ATENT D	OCUMENTS				
	DOCUMENT NUMBER		DATE	COUNTRY		CLASS	SUB CLASS	
	WO 97/43899	11/	27/97	WIPO				
	WO 97/45527	12/	04/97	WIPO				
	WO 96/29865	10/	03/96	WIPO]		
	WO 94/06292	03/	31/94	WIPO				
	WO 91/09520	07/	11/91	WIPO				
	0 376 763 A2	07/	04/90	Europe				
	WO 88/05261	07/	28/88	WIPO				
	545,332	10-	1922	France				
	WO 96/13288	5-1	996	WIPO				
	OTHER DOCUMENTS (I	ncludi	ng Author,	Title, Date, Pertinent Pages,	etc.)			
n								
		.*						
·								
EXAMINER				r	DATE CONSID	ERED		
	nitial if citation considered, whether or not conformance and not considered. Include copy					hrough citati	on if not in	

Form PTO-1449 (REV. 8-83)	US Dept. of Commerce PATENT & TRADEMARK OFFICE			ATTY DOCKET NO. 040219.03 APPLICATION NO Rule 53(b) Div. of A 09/645,525				
INFORM	MATION DISCLOSURE STATEMENT				ı			
((Use several sheets if necessary)		APPLICA Donald R	ANT(S) . OWEN et al.				
i i			FILING I		-	GROUP		
	U.S. I	PATE	ENT DOCL	IMENTS			· · · · · · · · · · · · · · · · · · ·	
EXAMINER INITIAL	DOCUMENT NUMBER	I	DATE	NAM	E		CLASS	SUB CLASS
	5,326,706	7/19	94	Yland et al.				
	6,024,698	2/20	000	Brasile				
	FOREIG	N PA	TENT DO	CUMENTS				
	DOCUMENT NUMBER	Γ	DATE	COUNT	RY		CLASS	SUB CLASS
	WO 86/00812	2/19	86	WIPO				
	WO 91/14364	10/1	991	WIPO				
	WO 97/45527	12/1	997	WIPO	-			
	WO 97/46091	12/1	997	WIPO	-			
	WO 99/15011	4/19	99	WIPO				
	2 592 306	12/1	985	France	-			
	OTHER DOCUMENTS (Inc.	ludin	g Author,	Title, Date, Pertinent Page	es, etc.)			
	B.G. Rijkmans et al., "Six-Day Canine Perfusion," February 1984, pp. 130-134	Kidn 4.	ey Preserv	ation, Hypothermic Perfu	sion Combi	ned wit	h Isolated B	lood
	Jan Van Der Wijk et al., "Six-Day Kidn Perfusion Interval," May 1983, pp. 408			in a Canine Model, Influ	ience of a O	ne-to-F	our-Hour E	ς Vivo
	M.R. Buhl et al, "The Postanoxic Rege Perfusion," 1976, pp. 175-181.	nerati	ion of 5'-A	denine Nucleotides in Ra	bbit Kidney	Tissue	during In V	itro
	Gauke Kootstra et al, "A New Device 7 pp. 86-89.	Towa	rds Interme	ediate Term Kidney Prese	rvation - Ar	Experi	imental Stud	y," 1980,
							•	
		~						
EXAMINER				·	DATE CO	ONSIDI	ERED	
		•	 -			,,		
	ial if citation considered, whether or not cit					line th	rough citati	on if not in

Form PTO-144 (REV. 8-83)	EV. 8-83) PATENT & TRADEMARK OFFICE			ATTY DOCKET NO. 040219.03			APPLICATION NO. Rule 53(b) Div. of Appln No. 09/645,525				
INFORMATION DISCLOSURE STATEMENT											
(Use several sheets if necessary)				APPLICANT(S) Donald R. OWEN et al.							
				FILING I July 11, 2		GROUP					
		U.S.	PATE	ENT DOCU	MENTS						
EXAMINER INITIAL		DOCUMENT NUMBER	I	DATE	NAMI	Е		CLASS	SUB CLASS		
	6,	100,082	08/2000		Hassanein						
	6,0	046,046	04/2	2000	Hassanein						
	5,9	965,433	10/1	1999	Gardetto et al.						
	5,8	823,986	10/1	998	Peterson						
	5,	730,720	03/1	998	Sites et al.						
	5,	5,716,378		1998	Minten						
	5,0	622,429	04/1997 07/1984		Heinze						
	4,4	462,215			Kuraoka et al.						
	4,4	494,385	01/1	985	Kuraoka et al.						
	5,3	356,771	10/1	994	O'Dell		-				
	5,3	362,622	11/1	994	O'Dell et al.						
	5,385,821		01/1	995	O'Dell et al.						
FOREIGN PATENT DOCUMENTS											
		DOCUMENT NUMBER	I	DATE	COUNT	RY		CLASS	SUB CLASS		
	w	WO 91/03934		991	WIPO	IPO			<u>-</u> .		
		OTHER DOCUMENTS (Inc	ludin	g Author,	Γitle, Date, Pertinent Page	es, etc.)			_		
			_								
				(T-21)							
			_			_		-			
EXAMINER						DATE CO	ONSIDI	ERED			
Examiner:	er: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.										

Form PTO-1449 (REV. 8-83)			ATTY DOCKET NO. 040219.03			APPLICATION NO. Rule 53(b) Div. of Appln No. 09/645,525			
INFORMATION DISCLOSURE STATEMENT							,		
(Use several sheets if necessary)			APPLICANT(S) Donald R. OWEN et al.						
			FILING DATE July 11, 2003			GROUP			
	U.S.	ENT DOCU	MENTS	•					
EXAMINER INITIAL	DOCUMENT NUMBER]	DATE NAMI		E		CLASS	SUB CLASS	
	5,217,860	06/1	1993	Fahy et al.					
	5,472,876		1995	Fahy					
	5,586,438	12/1	1996	Fahy					
	5,723,282	03/1	1998	Fahy et al.					
	5,821,045	10/1	1998	Fahy et al.					
	5,856,081	01/1	1999	Fahy					
	4,951,482	08/1	1990	Gilbert	= .				
	4,837,390 4,717,548 4,473,637 4,471,629		1989	Reneau					
			1988	Lee					
			1984	Guibert .					
			1984	Toledo-Pereyra					
	4,242,883		/1981 Toledo-Pereyra						
FOREIGN PATENT DOCUMENTS									
	DOCUMENT NUMBER	1	DATE	COUNTRY			CLASS	SUB CLASS	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)									
									
							-		
								· · · · · · · · · · · · · · · · · · ·	
EXAMINER				D	ATE CO	NSIDE	ERED	· ••· ·	
Examiner: In	nitial if citation considered, whether or not ci	itation	ı is in cont	formance with MPEP 600)· draw	line th	rough citati	on if not in	
C	onformance and not considered. Include copy of	of this	form with	next communication to applic	cant.		ough chair	II HOT III	

Page 16 of 17

Form PTO-1449 US Dept. of Commerce (REV. 8-83) PATENT & TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT			ATTY DOCKET NO. 040219.03			APPLICATION NO. Rule 53(b) Div. of Appln No. 09/645,525				
(Use several sheets if necessary)				APPLICANT(S) Donald R. OWEN et al.						
				DATE 2003	GROUP					
	U.S.	PAT	ENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER		DATE	NAME	E	CLASS	SUB CLASS			
	4,186,565	02/	1980	Toledo-Pereyra						
	3,995,444	12/	1976	Clark et al.						
	3,935,065	01/	1976	Doerig						
	3,914,954	10/	1975	Doerig						
	3,892,628	07/	1975	Thorne et al.						
	3,881,990 0		1975	Burton et al.	· · · · · · · · · · · · · · · · · · ·					
	3,877,843	04/	1975	Fischel						
	3,843,455	10/	1974	Bier						
	3,810,367	05/	1974	Peterson						
	3,777,507	12/	1973	Burton et al.						
	3,753,865	08/	1973	Belzer et al.						
	3,738,914 0		1973	Thorne et al.						
	FOREIC	SN P	ATENT DO	CUMENTS						
	DOCUMENT NUMBER			COUNT	RY	CLASS	SUB CLASS			
						<u> </u>				
	OTHER DOCUMENTS (Inc	cludii	ng Author,	Title, Date, Pertinent Page	s, etc.)		.			
	-									
EXAMINER					DATE CONSID	EDED				
CAMMINER					DATE CONSID	EKEU				
	Initial if citation considered, whether or not citation conformance and not considered. Include copy of					nrough citati	on if not in			

Form PTO-1449 US Dept. of Commerce (REV. 8-83) PATENT & TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT			040219.03 Rule				PLICATION NO. 2 53(b) Div. of Appln No. 345,525				
(Use several sheets if necessary)				APPLICANT(S) Donald R. OWEN et al.							
				FILING I	G	GROUP					
U.S. PATENT DOCUMENTS											
EXAMINER INITIAL		DOCUMENT NUMBER		DATE	NAM	E		CLASS	SUB CLASS		
		3,660,241	05/1972		Michielsen						
		3,639,084	02/	1972	Goldhaber						
		3,654,085	04/	1972	Norr et al.						
		3,632,473	01/	1972	Belzer et al.						
		3,545,221	12/	1970	Swenson et al.						
		3,406,531	10/	1968	Swenson et al.						
				<u> </u>							
		FOREIC	SN P	ATENT DO	CUMENTS			·			
		DOCUMENT NUMBER			COUNTRY			CLASS	SUB CLASS		
							_				
									-		
		OTHER DOCUMENTS (Inc	eludir	ng Author,	Title, Date, Pertinent Page	es, etc.)					
ļ											
EXAMINER						DATE CONS	SIDI	ERED			
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.											